CLAIM AMENDMENTS

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1.
                     (currently amended) A heat_insulating [[layer]]
1
     material with a melting point above 2500°C, a thermal expansion
3
      coefficient in excess of 8 x 10<sup>-6</sup> K<sup>-1</sup>, and a sintering temperature
      greater than 1400°C, wherein the heat-insulating material has a
      perovskite structure of the general formula A_{1+r}(B'_{1/3+x}B''_{2/3+y})O_{3+z} in
5
     which:
6
                 A = at least one element of the group (Ba, Sr, Ca, Be),
                 B' = at least one element of the group (Mg, Ca, Sr, Ba,
8
     Be),
9
                 B" = at least one element of the group (Ta, Nb),
10
                 r, x, and z \neq 0, and
11
                 -0.1 < r, x, y, z < 0.1;
12
13
                 or the heat-insulating material has the perovskite
      structure of the general formula A_{1+r}(B'_{1/2+x}B''_{1/2+y})O_{3+z} in which:
14
                 A = at least one element of the group (Ba, Sr, Ca, Be),
15
                 B' = at least one element of the group (Al, La, Nd, Gd,
16
      Er, Lu, Dy, Tb),
17
                  B" = at least one element of the group (Ta, Nb), and
18
                  -0.1 < r, x, y, z < 0.1.
19
                       (currently amended) A heat-insulating material
1
       according to claim 1 wherein the heat-insulating material has <del>a</del>
2
       composition wherein the perovskite structure of the general
3
       formula A_{1+r}(B'_{1/2+x}B''_{1/2+y})O_{3+z} and r = x = y = z = 0.
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9

3. (canceled)

- 4. (currently amended) The use of A method of using
 the heat-insulating material according to claim 1 comprising the
 step of applying the heat-insulating material as a heat-insulating
 coating on the surface of [[the]] a component.
- 5. (previously presented) The [[use]] method according to claim 4, further comprising the step of providing, between the component and the heat-insulating component, one or more intermediate coatings of ceramic glass or metallic material.
- 6. (previously presented) The [[use]] method according
 to the preceding claim 5, further comprising the step of

 providing, between the component and the heat-insulating layer, an
 intermediate layer comprised of a MCrAlY alloy where M = Co, Ni.
- 7. (currently amended) The [[use]] method according to
 the preceding claim 5, further comprising the step of providing,
 between the component and the heat-insulating layer, an
 intermediate (platinum-) aluminide layer.

8 - 10. (canceled)